

## t.MEST4 - Mechanik für Systemtechnik 4

**Person responsible for the course:** Michael Warden, wami

**Credits:** 2

**Valid for:** 2011/2012

**Last saved:** 24.09.2011 10:08

### Learning objectives:

The students can analyze both free and forced vibrations (mechanical oscillations) with or without damping respectively. They are familiar with different solutions including solving the equation of motion, using energy methods, or solving the problems in the frequency domain.

### Course content:

Lecture:

- Free Vibrations
- Forced Vibrations
- Systems with two degrees of freedom

Problem solving:

Problems are handed out which have to be solved as home work. These are discussed during the lectures.

### Previous knowledge:

Courses MEST1, MEST2, and MEST3

### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2
Tutorial/Practicum	
Group teaching	
Block instruction	
Seminar	

### Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	0.8
1	Exam during the semester	0.2
	Further assessments	

### Language of instruction:

German

### Instruction material:

Technische Mechanik 3: Band 3: Kinetik von Gross, Hauger, Schröder und Wall: ISBN 978-3-540-6822-0

---

**Comments:**

None